2023-2024

# PROJECTS MANAGEMENTS CONSULTANCY REPORT

**Client: Executive Engineer,** Yelahanka Division, BBMP, Bangalore.

**Agency: Prop Sri B.P Mahesh[Sri Sai Manjunatha Entreprises], Contractor, Bangalore.**

**Name of Work :** Drilling of borewells and providing water supply facilities to ward No 01,02,03 & 04.

**CIVIL AIM CONSULTANTS & ENGINEERS**

**An ISO 9001: 2015 Certified Company**

**NABL Accredited as per ISO-17025: 2017 Laboratory**

# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

**An ISO 9001-2015 Certified Company**

**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**


**Name of Work : Drilling of borewells and providing water supply facilities to ward No 01,02,03 & 04.**

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| Name of Client | : | : | **Executive Engineer,** Yelahanka Division, BBMP, Bangalore. |
| Contractor/Agency | : | : | **Prop Sri B.P Mahesh[Sri Sai Manjunatha Entreprises],** Contractor, Bangalore. |
| Est. Cost | : | : | Rs.102.62 Lakhs |
| Date of Inspection | : | : | 19.07.2023 |
| Status of Bill | : | : | 1st & Final Bill |
| In the Presence of | : | : | **Assistant Engineer ,** Yelahanka Division,BBMP, Bangalore. |
| | : | : | (b) **Mr. Prajwal ,** Engineer M/s. Civil Aim Consultants and Engineers, Bangalore. |

| Sl.No | Description of the Item | Unit | Qty | Comments / observations |
|---|---|---|---|---|
| 1 | Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or | Each BW | 10.00 | Work done up to the billed quantity and Quality is satisfactory |
| 2 | Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding | Rmtr | 500.00 | Work done up to the billed quantity and Quality is satisfactory |
| 3 | 50-100mtrs | Rmtr | 500.00 | Work done up to the billed quantity and Quality is |
| 4 | 100-150mtrs | Rmtr | 500.00 | Work done up to the billed quantity and Quality is |
| 5 | 150-200mtrs | Rmtr | 500.00 | Work done up to the billed quantity and Quality is |

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No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB

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| 6 | 200-250mtrs | Rmtr | 500.00 | Work done up to the billed quantity and Quality is |
| 7 | 250-300mtrs | Rmtr | 500.00 | Work done up to the billed quantity and Quality is |
| 8 | 300-350mtrs | Rmtr | 495.00 | Work done up to the billed quantity and Quality is |
| 9 | Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m. prices include Collar-Medium duty and as per the directions of the Engineer-in-charge | Rmtr | 568.00 | Work done up to the billed quantity and Quality is satisfactory |
| 10 | PVC pipes of 10 Kg/cm2 for 200mm and as per the directions of the Engineer-in-charge of the work | m | 154.00 | Work done up to the billed quantity and Quality is satisfactory |
| 11 | Providing and laying at site of work MS casing caps as per IS 1239 (partII) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge and as per the directions of the Engineer-in-charge of the work | Each | 10.00 | Work done up to the billed quantity and Quality is satisfactory |

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| 12 | Fabricating supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with | Sq.cm | 176000.00 | Work done up to the billed quantity and Quality is satisfactory |
| 13 | Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI Union confirming to IS 1239-II, 1991 with latest amendments if any and as per the directions | Each | 8.00 | Work done up to the billed quantity and Quality is satisfactory |
| 14 | Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any and as per the directions of the Engineer-in-charge of the work | Each | 24.00 | Work done up to the billed quantity and Quality is satisfactory |
| 15 | Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any for and as per the directions of the Engineer-in-charge of the | Each | 24.00 | Work done up to the billed quantity and Quality is satisfactory |
| 16 | Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including | Job | 8.00 | Work done up to the billed quantity and Quality is satisfactory |
| 17 | Labour charges for erection of outdoor type panel board and meter boardunits with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per | Job | 8.00 | Work done up to the billed quantity and Quality is satisfactory |

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| 18 | Supplying of 1.1KV LT UG cable XPLE or heat resistant PVC Insulated PVC eatruded inner sheath armoured UG LT cable as per IS -1554(Part-1) or IS-7098 Part-1,Armouring strip thickness in average +5% and resistivity 14ohms/kms(max) as per IS -3975 4 core 16sqmm and as per the directions of the Engineer-in-charge of the work | Rmtr | 333.00 | Work done up to the billed quantity and Quality is satisfactory |
| 19 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stone pipe / on wall/ on pole as required 6 sqmm to 16 sqmm and as per the directions of the Engineer-in-charge of the work | Rmtr | 333.00 | Work done up to the billed quantity and Quality is satisfactory |
| 20 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete cutting road surfaces and as per the directions of the Engineer-in-charge of the work | Mtr | 324.00 | Work done up to the billed quantity and Quality is satisfactory |
| 21 | Supplying and fixing of class A GI pipe on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm and as per the directions of | Mtr | 32.00 | Work done up to the billed quantity and Quality is satisfactory |
| 22 | Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia and as per the directions of the Engineer-in-charge of the work | Job | 8.00 | Work done up to the billed quantity and Quality is satisfactory |

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| | | | | |
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| 23 | Providing,Supplying and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work. 3x6 Sqm and as per the directions of the | Each | 8.00 | Work done up to the billed quantity and Quality is satisfactory |
| 24 | Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws 20" x 20" x 2.5" and as per the directions of the | Nos | 8.00 | Work done up to the billed quantity and Quality is satisfactory |
| 25 | Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 17.50 HP - 120 LPM @ 308 m = 26 STG Outlet Dia - 2.00" and as per the directions of the Engineer-in- | Each | 8.00 | Work done up to the billed quantity and Quality is satisfactory |
| 26 | Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover) and as per the | Each | 342.00 | Work done up to the billed quantity and Quality is satisfactory |
| 27 | Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 and as per the | Mtr | 4836.00 | Work done up to the billed quantity and Quality is satisfactory |

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| 28 | Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP and as per the directions of the | Nos | 8.00 | Work done up to the billed quantity and Quality is satisfactory |
| 29 | Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm and as per the directions of the | Each | 8.00 | Work done up to the billed quantity and Quality is satisfactory |
| 30 | Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm and as per the directions of the Engineer-in-charge of the work | Each | 8.00 | Work done up to the billed quantity and Quality is satisfactory |
| 31 | Supply and delivery at site delivery of best indigenous brand new MCB (Miniature Circuit Breakers) of required capacity as per IS 88228/1978 and its latest amendments and with ISI Mark of 6/10/16/20/25/40 Amps with scalable box. and as per the | EACH | 8.00 | Work done up to the billed quantity and Quality is satisfactory |
| 32 | Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work and as per the directions of the Engineer-in-charge of the | Cum | 1528.22 | Work done up to the billed quantity and Quality is satisfactory |

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| 33 | Providing and installing at site of work 6 Kg/m2: 63mm(weight of pipe -0.662 kg) P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect | mtr | 2911.00 | Work done up to the billed quantity and Quality is satisfactory |
| 34 | Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications and as per the directions of the Engineer-in-charge of the work | Cum | 1528.22 | Work done up to the billed quantity and Quality is satisfactory |
| E1 | Supplying, laying and jointing HDPE pipes of specified grade andconforming to IS 4984-2016 with latest ammendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials with electrofusion welding, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth availablefrom the excation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bedns, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. Note: Upto 110mm dia Coil shall be used.For Grade PE80 PN16.0 :(I NO-5.1, P no-123 BWSSB SR) | M | 366.00 | Work done up to the billed quantity and Quality is satisfactory |

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| E2 | Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimumworking of compressor for one hour (Excluding cost of casing pipes,collars, cap etc., complete ) and as per the directions of the Engineer-in-charge of the | M | 61.00 | Work done up to the billed quantity and Quality is satisfactory |

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Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com